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sizing in the paper. The inside of the jar, where in contact with the papers, was also stained by a black film of sulphuret of lead from the oxide of lead contained in the glass.

The Society then proceeded to the stated business of the meeting, the balloting for candidates for membership.

All other business having been concluded, the ballot boxes were opened, and the following named gentlemen were declared, by the presiding officer, to be duly elected members of the Society.

THOMAS L. PATTERSON, Chief Engineer of the Chesapeake and Ohio Canal.

HENRY GRINNELL, of New York.

JOHN B. BIDDLE, M.D., of Philadelphia.

Stated Meeting, May 6.

Present, nine members.

JUDGE KANE, Vice-President, in the Chair.

Letters were read:—

From Henry Grinnell, dated New York, 19th April, 1853:— and from Dr. John B. Biddle, dated Philadelphia, 22d April, 1853,—severally acknowledging the receipt of notice of their election as members:—

From the Imperial Academy of Sciences at Vienna, dated 7th October, 1852, returning thanks for No. 47 of the Proceedings of this Society:—

From the Royal Prussian Academy of Sciences, dated Berlin, 11th November, 1852, accompanying a donation for the Library: and—

Copy of a letter from Dr. J. G. Grunert, Professor of Mathematics in the University of Greifswald, to Dr. J. G. Flügel, of Leipsic, dated Greifswald, 4th January, 1853, on transmitting to him two copies of a work written by Dr. Grunert, and requesting Dr. Flügel to present one of them to this Society.

The following donations were announced :—

FOR THE LIBRARY.

Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin, aus dem Jahre 1851. Berlin. 4to.—*From the Royal Academy of Sciences, Berlin.*

Monatsbericht der Königl. Preuss. Akademie der Wissenschaften zu Berlin. Jul. Aug. Sept. Oct. 1852. Berlin. 8vo.—*From the same.*

Monthly Notices of the Royal Astronomical Society: Vol. XIII. Nos. 4, 5. Feb. March, 1853. London. 8vo.—*From the Society.*

Journal of the Franklin Institute. 3d Series. Vol. XXV. No. 5. May, 1853. Philadelphia. 8vo.—*From the Institute.*

The African Repository: Vol. XXIX. No. 4. April, 1853. Washington. 8vo.—*From the American Colonization Society.*

The American Journal of Science and Arts. 2d Series. Vol. XV. No. 45. May, 1853. New Haven. 8vo.—*From Profs. Silliman and Dana, Editors.*

Ueber das Katoptrische und Dioptrische Beleuchtungssystem für Leuchttürme. Von Johann August Grunert, Prof. zu Greifswald, Greifswald, 1852. 8vo.—*From the Author.*

On the probable number of the Native Indian Population of British America. (From the Proceedings of the Canadian Institute). By Capt. J. H. Lefroy, R. A. Toronto. 8vo.—*From the Author.*

A Digest of the Acts of Assembly and of the Ordinances of the Inhabitants and Commissioners of the District of Spring Garden, for the Government of that District. By Robert Bethell, Solicitor of the Corporation. Philadelphia, 1852. 8vo.—*From the Author.*

The Astronomical Journal. Nos. 56, 57. April 19, 25, 1853. Cambridge. 4to.—*From Dr. B. A. Gould, jr., Editor.*

The Medical Examiner and Record of Medical Science. New Series. Vol. IX. No. 5. May, 1853. Philadelphia. 8vo.—*From Drs. Smith and Biddle, Editors.*

The Medical News and Library. Vol. XI. No. 125. May, 1853. Philadelphia. 8vo.—*From Blanchard & Lea.*

On a New Apparatus for the determination of Carbonic Acid, and on Kemp's Thermostat. By Charles M. Wetherill, Ph. D. M.D.—*From the Author.*

Miscellanea Eruditæ Antiquitatis: curâ Jacobi Sponii, &c. &c. Lugduni, 1685. Folio.—*From Prof. J. F. Frazer.*

Antonii van Dale, Dissertationes IX. Antiquitatibus quin et Marmoribus, cum Romanis, tum potissimum Græcis illustrandis inservientes. Amstelodami, 1702. 4to.—*From the same.*

Judge Kane announced the decease of the Hon. John Banister Gibson, late Chief Justice of Pennsylvania, a member of this Society, who died on the 3d inst.

Mr. Edward Miller presented, for the Cabinet of the Society, a specimen of silicate of zinc, from the Saucon valley, in Lehigh county, Pennsylvania. The bed of this ore is extensively worked;—the product being sent to New York, for the manufacture of zinc paint.

A discussion ensued with regard to the deposits of this mineral, in which Mr. Miller, Prof. Frazer, Dr. Boyé and Mr. Trego took part. Dr. Boyé remarked that he had found the carbonate of zinc also in the above mentioned locality, and had ascertained it to be that mineral by chemical analysis.

Prof. Frazer, from the Committee on Dr. Kane's Expedition to the Arctic regions, reported that the services of a competent astronomical observer had been secured to accompany the expedition;—and presented a list of names as subscribers to a fund in aid of such services, amounting to \$425, principally contributed by members of the Society.

The following resolution was offered by Mr. Trego, which, after being read and considered, was adopted:

Resolved, That the Curators be authorized to exchange with other societies or individuals, such duplicate or supernumerary specimens of coins, medals, minerals and other articles as they may deem unnecessary to be retained in the Cabinet of the Society, for such other specimens, of equal value, as they may consider desirable to be added to the Society's present collection;—and that the Curators be instructed to make report to the Society of their proceedings from time to time.